

Title (en)

SYSTEM, APPARATUS, AND METHOD FOR PASSIVE AND ACTIVE REFRIGERATION OF AT LEAST ONE ENCLOSURE

Title (de)

SYSTEM, VORRICHTUNG UND VERFAHREN ZUR PASSIVEN UND AKTIVEN KÜHLUNG MINDESTENS EINER KAMMER

Title (fr)

SYSTEME, APPAREIL, ET PROCEDE DE REFRIGERATION PASSIVE ET ACTIVE D'AU MOINS UNE ENCEINTE

Publication

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Application

EP 04780571 A 20040810

Priority

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- US 64141503 A 20030815

Abstract (en)

[origin: US2005034477A1] A system, apparatus, and method are provided for selectively actively and passively refrigerating one or more enclosures. The apparatus includes a primary heat sink that defines at least one surface configured to receive thermal energy from a gas in the enclosure so that the enclosure is refrigerated. First and second coolant heat sinks thermally communicate with the primary heat sink to remove thermal energy therefrom. For example, in a passive mode, a coolant is circulated through the first heat sink to cool the primary heat sink. In an active mode, the coolant is circulated through the second coolant heat sink and at least one heat pump is operated to transfer thermal energy from the primary heat sink to the coolant in the second coolant heat sink.

IPC 8 full level

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